NO: YEL-P/PMC/PKG-03/PAVER

Date: 21/10/2022

1. Test report on cement Concrete Blocks:

Sub: Testing of 'I' Section Concrete Pavers– Compressive Strength) As Per IS 15558-2006, Clause -5 and 9.1.4 of Page -4

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 200x150x60mm ('I' Section) C/s Area =25200mm2

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	panchaksh ari Gavai Park	19-09-2022	21-10-2022	3.45	32	1049.00	41.63	37.47
2		"	"	3.55	"	965.00	38.29	
3		"	"	3.50	"	880.00	34.92	
4		"	"	3.45	"	875.00	34.72	
5		"	"	3.60	"	920.00	36.51	
6		"	"	3.55	"	976.00	38.73	

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NO: YEL-P/PMC/PKG-03/PAVER

Date: 27/10/2022

1. Test report on cement Concrete Blocks:

Sub: Testing of 'I' Section Concrete Pavers– Compressive Strength) As Per IS 15558-2006, Clause -5 and 9.1.4 of Page -4

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 200x150x60mm ('I' Section) C/s Area =25200mm2

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strengt h N/mm2	Average Strength N/mm2
1	Dara Bendre Park	19-09-2022	27-10-2022	3.50	38	900.00	35.71	38.39
2		"	"	3.45	"	1020.00	40.48	
3		"	"	3.34	"	940.00	37.30	
4		"	"	3.52	"	975.00	38.69	
5		"	"	3.50	"	980.00	38.89	
6		"	"	3.55	"	990.00	39.29	

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NO: YEL-P/PMC/PKG-03/KERB

Date: 18/10/2022

Kerb Stone (Rebound Hammer Method) Test Report

Sub: Testing of concrete Kerb Stones (Rebound Hammer Method) - Compressive Strength) IS: **13311 (Part - 2)-1992**

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref IS: **13311 (Part - 2)-1992**
Table 1.1

SL No	Sample Number	Strength in KN	Remarks
1.	Random Sampling	22.00	
2.	Random Sampling	17.8	
3.	Random Sampling	20.10	

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NO: YEL-P/PMC/PKG-03/KERB

Date: 18/10/2022

Kerb Stone (Rebound Hammer Method) Test Report

Sub: Testing of concrete Kerb Stones (Rebound Hammer Method) - Compressive Strength) IS: **13311 (Part - 2)-1992**

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref IS: **13311 (Part - 2)-1992**
Table 1.1

SL No	Sample Number	Strength in KN	Remarks
1.	Sample 1, Area 1	22.00	
2.	Sample 1, Area 2	17.80	
3.	Sample 1, Area 3	23.00	
4.	Sample 1, Area 4	18.50	
5.	Sample 1, Area 5	16.00	
6.	Sample 1, Area 6	17.50	

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NO: YEL-P/PMC/PKG-03/KERB

Date: 18/10/2022

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	100	.458	2811.4	1.56	.960	56.3	13.50	14.47	13.39	17.55
2.	105	.462	2842.7	1.60	.960	56.3	13.45	14.57	13.39	17.27
3.	103	.482	2872.5	1.64	.960	55.10	12.50	13.81	13.25	16.85

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NEW TECHNOLOGIES TO INNOVATE

NO: YEL-P/PMC/PKG-03/KERB

Date: 20/10/2022

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) – Compressive Strength)

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	102	.416	2931.4	1.63	.960	26.3	53.40	14.67	13.39	17.45
2.	100	.468	2842.7	1.60	.960	26.3	53.35	14.47	13.39	17.27
3.	100	.482	2872.5	1.64	.960	25.10	52.80	13.81	13.25	16.31

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NO: YEL-P/PMC/PKG-03/MS Grill

Date: 07/10/2022

PHYSICAL PROPERTIES OF MS STEEL SPECIMENS

Specimen: 20mm Square Rods

Sub: Testing of MS Sections Technical Ref: IS.432 & IS 2062:2011

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF SPICEMEN SAMPLES

Technical Ref: IS.432 & IS 2062:2011

Table 1.1

SL No	Details Of Test	Result	Requirements as per IS Specifications
1.	Proof Stress/Yeild Stress, fy (N/mm2)	291	250 N/mm2 (min)
2.	Bend / Rebend Test	OK	Sample should Withstand
3.	Percentage of Elongation (%)	24.5	23.0 – 30.0
4.	Ultimate Tensile Strength, (N/mm2)	490	410 – 530 N/mm2

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NO: YEL-P/PMC/PKG-03/MS Grill

Date: 03/11/2022

PHYSICAL PROPERTIES OF MS STEEL SPECIMENS

Specimen: 20mm Square Rods

Sub: Testing of MS Sections Technical Ref: IS.432 & IS 2062:2011

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF SPICEMEN SAMPLES

Technical Ref: IS.432 & IS 2062:2011

Table 1.1

SL No	Details Of Test	Result	Requirements as per IS Specifications
1.	Proof Stress/Yeild Stress, fy (N/mm2)	262	250 N/mm2 (min)
2.	Bend / Rebend Test	OK	Sample should Withstand
3.	Percentage of Elongation (%)	28	23.0 - 30.0
4.	Ultimate Tensile Strength, (N/mm2)	496	410 - 530 N/mm2

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NEW TECHNOLOGIES TO INNOVATE

NO: YEL-P/PMC/PKG-03/MS Grill

Date: 18/10/2022

PHYSICAL PROPERTIES OF MS STEEL SPECIMENS

Specimen: 20mm Square Rods

Sub: Testing of MS Sections Technical Ref: IS.432 & IS 2062:2011

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF SPICEMEN SAMPLES

Technical Ref: IS.432 & IS 2062:2011

Table 1.1

SL No	Details Of Test	Result	Requirements as per IS Specifications
1.	Proof Stress/Yeild Stress, fy (N/mm2)	285	250 N/mm2 (min)
2.	Bend / Rebend Test	OK	Sample should Withstand
3.	Percentage of Elongation (%)	27.5	23.0 – 30.0
4.	Ultimate Tensile Strength, (N/mm2)	462	410 – 530 N/mm2

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NO: YEL-P/PMC/PKG-03/MS Grill Date: 18/10/2022

PHYSICAL PROPERTIES OF MS STEEL SPECIMENS

Specimen: 20mm Square Rods

Sub: Testing of MS Sections Technical Ref: IS.432 & IS 2062:2011

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF SPICEMEN SAMPLES

Technical Ref: IS.432 & IS 2062:2011

Table 1.1

SL No	Details Of Test	Result	Requirements as per IS Specifications
1.	Proof Stress/Yeild Stress, fy (N/mm2)	272	250 N/mm2 (min)
2.	Bend / Rebend Test	OK	Sample should Withstand
3.	Percentage of Elongation (%)	28	23.0 - 30.0
4.	Ultimate Tensile Strength, (N/mm2)	455	410 - 530 N/mm2

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NO: YEL-P/PMC/PKG-03/Cement

Date: 13/09/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	175 Min	Shall Not be less than 30 Min
2.	Final Setting Time	268 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.10 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.10 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.60 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/PKG-03/Cement

Date: 21/09/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	166 Min	Shall Not be less than 30 Min
2.	Final Setting Time	276 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.90%	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.35 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	30.50 N/Sqmm	Shall not be less than 27 N /Sq mm

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NO: YEL-P/PMC/PKG-03/Cement

Date: 29/10/2022

1. Test report on cement Concrete Cubes:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	152 Min	Shall Not be less than 30 Min
2.	Final Setting Time	268 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	2.10 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.51 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.65 N/Sqmm	Shall not be less than 27 N /Sq mm

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Date: 13/09/2022

NO: YEL-P/PMC/PKG-03/Fine Agg

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.10%	NA
2.	Silt Content	-	.60%	Not more than 8%
3.	Specific Gravity	-	2.55	--

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NO: YEL-P/PMC/PKG-03/Fine Agg

Date: 21/09/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	18.10%	NA
2.	Silt Content	-	.72%	Not more than 8%
3.	Specific Gravity		2.71	--

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NO: YEL-P/PMC/PKG-03/Fine Agg

Date: 29/10/2022

1. Test report on Fine Aggregates:

Sub: Testing of Fine Aggregates Sample Pertaining to IS: 383-1970 (Reaffirmed 2002).

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

SIEVE ANALYSIS

Table 1.1

IS Sieve Size, mm	% Passing	IS: 383-1970 (Reaffirmed 2002). Percentage Passing			Result/ Remarks
		Zone I	Zone II	Zone III	
4.75mm	95.35	90-100	90-100	90-100	The Sample Conforms Grade II
2.36mm	82.65	60-95	75-100	85-100	
1.18 mm	86.25	30-70	55-90	75-100	
600 micr.	48.90	15.34	35-59	60-79	
300 mic.	23.40	5-20	8-30	12-40	
150 mic.	8.10	0-10	0-10	0-10	

SL No	Name of Tests	Sample	Result	Requirements as per IS: 383-1970 (Reaffirmed 2002).
1.	Bulking Of Sand	01	17.55%	NA
2.	Silt Content	-	.60%	Not more than 8%
3.	Specific Gravity		2.60	--

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NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 13/09/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

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BBMP, Bangalore - 92

NEWZEN CONSULTANT BANGALORE, #304, First floor, 6th Cross,Gidadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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Date: 13/09/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.70 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.00 %**	Not more than 35.0 %
3.	Water absorption, %	**0.50 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 21/09/2022

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

Ref: Material Testing/PMC/22-23.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.50 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.75 %**	Not more than 35.0 %
3.	Water absorption, %	**0.55 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NO: YEL-P/PMC/PKG-03/Cou Agg

Date: 29/10/2022

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggrigates (Grade-V) mix.

Name of Work :- PACKAGE No-03 Providing grill fencing and other developmental works at Sardara vallabai patel park, Sangolli rayanna park, Ambedkar park and Providing Gym & Children Play Equipments to Various Parks in Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants)

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26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

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Date: 29/10/2022

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.55 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.72 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

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